Author Index of Volume 187

Ando, K., 31
Andreev, A. V., 285, 293, 381, 401
Auffermann, G., 81, 87

Ban, E., 193
Baranov, N. V., L7, 293
Barefield, E. K., 331
Bartashevich, M. I., 285
Bharadwaj, S. R., 373
Bickel, M., 17
Bokhonov, B., 207
Boldyrev, V., 207
Bonhomme, F., 233
Bowman, Jr., R. C., 113
Bronger, W., 81, 87, 95, 351
Bros, J. P., 215
Buschow, K. H. J., 73, 299, 409

Carter, W. B., 331
Cathey, W. N., 113
Černý, R., 233
Chandra, D., 113
Chen, S.-Y., 49
Chen, W.-Y., 49
Chuang, Y. C., 249
Conrad, M., 181
Cox, D. E., 233

Dharwadkar, S. R., 373
Ding, Y., 317
Drulis, H., 401
de Boer, F. R., 249, 299
de Waal, D., 171

Eick, H. A., 145
Ermakov, A. E., 285

Ferro, R., 267
Fischer, P., 105, 227, 233
Fornasini, M. L., 243
Freeman, A. J., 263
Freund, J., 157
Fukushima, N., 31

Gambino, M., 215
Gaviko, V. S., 285
Ge, Y. P., 249
Gingl, F., 105
Gratz, E., L7
Gschneidner, K. A., 263
Gurin, V. N., 39

Hanigofsky, J. A., 331
Harbrecht, B., 181
Hassam, S., 215
Heinrich, A., 363
Herzog, K., 59
Hewat, A., 233
Heyns, A. M., 171
Hill, D. N., 331
Hilscher, G., L7
Hsu, S.-E., 49
Huang, B., 227

Iandelli, A., 243
Irmer, G., 59
Ivanov, E., L1, 207

Juang, H.-K., 49

Kanellakopulos, B., 17
Kapusta, Cz., 409
Kathage, H. U., 351
Katsura, M., 389
Kerkar, A. S., 373
Kessler, G., 59
Kim, Y.-G., 1
Konstanchuk, I., 207
Korsukova, M. M., 39
Krone, W., 157
Kurosawa, K., 193

Lackey, W. J., 331
Lambert, S. W., 113
Lapina, T. P., 285
Le Caër, G., 305
Lee, J.-Y., 1
Lee, S.-M., 49
Liu, G., 145
Liu, Y., 137
Lundström, T., 39
Lynch, F. E., 113

Maikov, V. V., 285
Makhlouf, S. A., L1
Marazza, R., 267
Markin, P. E., L7
Matsuoka, Y., 193
Matteazzi, P., 305
Mordkovich, V. Z., 9
Müller, P., 95
Mushnikov, N. V., 285

Nakamura, S., 31
Northwood, D. O., 317
Novikov, S. I., 285

Ogawa, H., 193

Pani, M., 243
Panzner, M., 59
Paulus, W., 157
Perng, T.-P., 49
Powietzka, B., 17

Resel, R., L7
Richter, A., 59
Rosenberg, M., 409
Rossi, D., 267
Ruschewitz, U., 95

Sahashi, M., 67
Sakurada, S., 67
Samant, M. S., 373
Sauer, Ch., 351
Schobinger-Papamantellos, P., 73
Serizawa, H., 389
Shapiro, M. J., 331
Shen, Z., 137
Sobe, G., 363
Song, L., 137
Stakebake, J. L., 271
Sumiyama, K., L1
Sun, X. K., 249
Suski, W., 293, 381, 401
Susuki, K., L1
Szulc, E., 255

Takeno, S., 31
Tergenius, L.-E., 39
Tsutai, A., 67

Vagizov, F. G., 401
van Loyen, L., 363
Wang, J. Y., 249
Weise, G., 363
Wortmann, G., 157

Yang, H., 137
Yvon, K., 105, 227, 233
Zhao, M., 137
Zhao, X., 145
Zhao, Z. G., 249
Zhou, G. F., 299
Zolliker, P., 233
Zolnierek, Z., 255

Subject Index of Volume 187

Aluminium
  nanoscale quasi–amorphous Ni produced by leaching sputter-deposited $Ni_{25}Al_{75}$ alloys, L1
  stage formation of quasi-crystals during mechanical treatment of the cubic Frank–Kasper phase $Mg_{32}(Zn,Al)_{49}$, 207
Amorphization mechanisms
  mechanism of H-induced amorphization in intermetallic compounds, 1
Anisotropy
  evidence of U magnetic ordering in $UFe_{10}Si_2$, 293
  magnetic anisotropy of $R_2Co_{14}B_{1-x}C_x$ compounds (R≡Pr, Nd), 249
Antiferromagnetism
  magnetic and electrical properties of the tetragonal $U(Cu, Ni)_{2-x}Ga_{2+x}$ phases, 255
  magnetic ordering of $TbNi_{0.4}Ge_2$ and $TbCu_{0.4}Ge_2$ studied by neutron diffraction and magnetic measurements, 73
Argon films
  CVD of Ag films for superconducting wire applications, 331
Atomic stacking sequence
  structural irregularity of the stacking sequence in the $Sr_3V_2O_7$ compound, 31

Barium
  high J_cY–Ba–Cu–O thin films prepared by a spray pyrolysis method, 193
Borides
  crystal structure of defective $YAlB_{14}$ and $ErAlB_{14}$, 39
Boron
  magnetic anisotropy of $R_2Co_{14}B_{1-x}C_x$ compounds (R≡Pr, Nd), 249
  NMR study of the RE(Co, B)$_5$-type compounds (RE≡Y, Gd), 409

Cadmium
  determination of the phase diagrams of the Cd–Sn(0.2)–Zn ternary system at high pressure, 137
Calorimetry
  liquid Cd–Ga–Sn: enthalpy of formation, 215
Chalcogenides
  relationships between crystal structure and ^{197}Au Mössbauer effect in ternary alkali metal Au chalcogenides, 351
  polarization dependent X-ray absorption study of Cu_xNbS_2 (x=0.00, 0.16) and Cu_xNbSe_2 (x=0.00, 0.38), 157
Chemical vapor deposition
  CVD of Ag films for superconducting wire applications, 331
Chromium
  thermal decomposition products of $(NH_4)_2CrO_4$ and $(NH_4)_2Cr_2O_7$, 171
  influence of substrate temperature on structure and electrical properties of Cr–Si–O films, 363
Copper
  high J_cY–Ba–Cu–O thin films prepared by a spray pyrolysis method, 193
  polarization dependent X-ray absorption study of Cu_xNbS_2 (x=0.00, 0.16) and Cu_xNbSe_2 (x=0.00, 0.38), 157
Corrosion
  formation of a barrier oxide layer on a Zr–2.5wt.%Nb alloy during corrosion in high temperature pressurized water, 317
Crystal structure
  relationships between crystal structure and ^{197}Au Mössbauer effect in ternary alkali metal Au chalcogenides, 351

Deuterides
  hexamagnesium dicobalt undecadeuteride $Mg_6Co_2D_{11}$: containing $[CoD_4]^{5-}$ and $[CoD_5]^{4-}$ complex anions conforming to the 18-electron rule, 233

Electrical properties
  influence of substrate temperature on structure and electrical properties of Cr–Si–O films, 363

magnetic and electrical properties of the tetragonal U(Cu, Ni)$_{2-x}$Ga$_{2+x}$ phases, 255
Exchange reaction milling
exchange reaction milling in Fe nitrides, fluorides and carbides, 305

Ferromagnetism
nanoscale quasi–amorphous Ni produced by leaching sputter-deposited $Ni_{25}Al_{75}$ alloy, L1

Germanium
ternary RE alloys: RAuGe compounds, 267
Gold
relationships between crystal structure and ^{197}Au Mössbauer effect in ternary alkali metal Au chalcogenides, 351
different stacking of the Au and Si atoms in the phases RAuSi (R≡Sc, Y, Lu), 243
ternary RE alloys: RAuGe compounds, 267

Hydrides
ternary Pd hydride A_3PdH_5 with A≡K, Rb and Cs, 81
description, structure and phase transition of Rb_2PdH_4 and Cs_2PdH_4, 87
equilibria in $C_xLa_{1-x}Ni_{5-y}Al_y$-H_2 systems at subcritical and supercritical parameters, 9
hexamagnesium dicobalt undecadeuteride $Mg_6Co_2D_{11}$: containing $[CoD_4]^{5-}$ and $[CoD_5]^{4-}$ complex anions conforming to the 18-electron rule, 233
hydriding properties of $LaNi_{4.8}Sn_{0.2}$, $LaNi_{4.27}Sn_{0.24}$ and $La_{0.9}Gd_{0.1}Ni_5$ after thermal cycling and aging, 113
kinetics for the reaction of H with Pu powder, 271
strontium dimagnesium iron octahydride, $SrMg_2FeH_8$, containing octahedral $[FeH_6]^{4-}$ complex anions, 227
strontium Mg tetrahydride ($SrMgH_4$), 105
Hydrogen
kinetics for the reaction of H with Pu powder, 271
microstructures and hydrogenation properties of $TiFe_{1-x}M_x$ alloys, 49
Raman and IR spectroscopy of H-charged $YBa_2Cu_3O_{7-\delta}$ films, 59
mechanisms of H-induced amorphization in intermetallic compounds, 1
structure and magnetic properties of binuclear compounds Cs_3FeS_3, Na_3FeS_3 and Na_3FeSe_3, 95

Intermetallics
change of anisotropy type in $UFe_{10-x}Al_xSi_2$, 381
magnetic properties and ^{57}Fe Mössbauer effect investigation in $U_{1-x}Y_xFe_{10}Si_2$ solid solutions, 401
Iron
the formation of $ThMn_{12}$ and $NaZn_{13}$ structures in $RFe_{10}Si_2$, 67
microstructures and hydrogenation properties of $TiFe_{1-x}M_x$ alloys, 49
strontium dimagnesium iron octahydride, $SrMg_2FeH_8$, containing octahedral $[FeH_6]^{4-}$ complex anions, 227
structure and magnetic properties of binuclear compounds Cs_3FeS_3, Na_3FeS_3 and Na_3FeSe_3, 95
Isobars
equilibria in $Ce_xLa_{1-x}Ni_{5-y}Al_y$-H_2 systems at subcritical and supercritical parameters, 9
Isotherms
equilibria in $Ce_xLa_{1-x}Ni_{5-y}Al_y$-H_2 systems at subcritical and supercritical parameters, 9

Kinetics
kinetics for the reaction of H with Pu powder, 271

Lanthanides
the formation of $ThMn_{12}$ and $NaZn_{13}$ structures in $RFe_{10}Si_2$, 67
Lanthanum
hydriding properties of $LaNi_{4.8}Sn_{0.2}$, $LaNi_{4.27}Sn_{0.24}$ and $La_{0.9}Gd_{0.1}Ni_5$ after thermal cycling and aging, 113
magnetostriction of $LaCo_{13}$-based alloys, 285
Lutetium
different stacking of the Au and Si atoms in the phases RAuSi (R≡Sc, Y, Lu), 243

Magnesium
stage formation of quasi-crystals during mechanical treatment of the cubic

Frank–Kasper phase $Mg_{32}(Zn, Al)_{49}$, 207
Magnetic properties
change of anisotropy type in $UFe_{10-x}Al_xSi_2$, 381
magnetic and electrical properties of the tetragonal $U(Cu, Ni)_{2-x}Ga_{2+x}$ phases, 255
magnetic properties and ^{57}Fe Mössbauer effect investigation in $U_{1-x}Y_xFe_{10}Si_2$ solid solutions, 401
Magnetism
evidence of U magnetic ordering in $UFe_{10}Si_2$, 293
magnetic anisotropy of $R_2Co_{14}B_{1-x}C_x$ compounds (R = Pr, Nd), 249
magnetic coupling in rare earth–nickel compounds of the type R_2Ni_7, 299
magnetic ordering of $TbNi_{0.4}Ge_2$ and $TbCu_{0.4}Ge_2$ studied by neutron diffraction and magnetic measurements, 73
structure, magnetism and absorption spectra of some orthouranates and orthoneptunates, 17
structure and magnetic properties of binuclear compound Cs_3FeS_3, Na_3FeS_3 and Na_3FeSe_3, 95
Magnetocrystalline anisotropy
change of anisotropy type in $UFe_{10-x}Al_xSi_2$, 381
Magnetostriction
magnetostriction of $LaCo_{13}$-based alloys, 285
Manganese
electronic specific heat of Mn_2Sb and $Mn_{1.9}Cr_{0.1}Sb$, L7
Mechanosynthesis
exchange reaction milling in Fe nitrides, fluorides and carbides, 305
Molybdenum
synthesis, structure and characterization of $SrMoO_{2.6}{}^{15}N_{0.4}$, 145
thermodynamic investigation on the vaporization of Mo trioxide, 373
Mössbauer effect
magnetic properties and ^{57}Fe Mössbauer effect investigation in $U_{1-x}Y_xFe_{10}Si_2$ solid solutions, 401

Neptunium
structure, magnetism and absorption spectra of some orthouranates and orthoneptunates, 17
Neutron diffraction
ternary Pd hydride A_3PdH_5 with A ≡ K, Rb and Cs, 81
hexamagnesium dicobalt undecadeuteride $Mg_6Co_2D_{11}$: containing $[CoD_4]^{5-}$ and $[CoD_5]^{4-}$ complex anions conforming to the 18-electron rule, 233
magnetic ordering of $TbNi_{0.4}Ge_2$ and $TbCu_{0.4}Ge_2$ studied by neutron diffraction and magnetic measurements, 73
strontium Mg tetrahydride ($SrMgH_4$), 105
synthesis, structure and characterization of $SrMoO_{2.6}{}^{15}N_{0.4}$, 145
Nickel
hydriding properties of $LaNi_{4.8}Sn_{0.2}$, $LaNi_{4.27}Sn_{0.24}$ and $La_{0.9}Gd_{0.1}Ni_5$ after thermal cycling and aging, 113
magnetic coupling in rare earth–nickel compounds of the type R_2Ni_7, 299
nanoscale quasi–amorphous Ni produced by leaching sputter-deposited $Ni_{25}Al_{75}$ alloy, L1
Niobium
formation of a barrier oxide layer on a Zr–2.5wt.%Nb alloy during corrosion in high temperature pressurized water, 317
Nitrides
formation of a nitrogen-rich α-U_2N_{3+x} phase by the reaction of U with a stream of ammonia, 389
synthesis, structure and characterization of $SrMoO_{2.6}{}^{15}N_{0.4}$, 145
Nuclear magnetic resonance
NMR study of the RE(Co, B)$_5$-type compounds (RE ≡ Y, Gd), 409

Palladium
ternary Pd hydride A_3PdH_5 with A ≡ K, Rb and Cs, 81
description, structure and phase transition of Rb_2PdH_4 and Cs_2PdH_4, 87
Plutonium
kinetics for the reaction of H with Pu powder, 271
Polytherms
equilibria in $Ce_xLa_{1-x}Ni_{5-y}Al_y$-H_2 systems at subcritical and supercritical parameters, 9

Quasi-crystals
stage formation of quasi-crystals during mechanical treatment of the cubic

Frank–Kasper phase $Mg_{32}(Zn, Al)_{49}$, 207

Rare earths
the formation of $ThMn_{12}$ and $NaZn_{13}$ structures in $RFe_{10}Si_2$, 67
magnetic coupling in rare earth–nickel compounds of the type R_2Ni_7, 299
magnetic ordering of $TbNi_{0.4}Ge_2$ and $TbCu_{0.4}Ge_2$ studied by neutron diffraction and magnetic measurements, 73
NMR study of the $RE(Co, B)_5$-type compounds (RE≡Y, Gd), 409
ternary RE alloys: RAuGe compounds, 267
crystal structure of defective $YAlB_{14}$ and $ErAlB_{14}$, 39

Scandium
different stacking of the Au and Si atoms in the phases RAuSi (R≡Sc, Y, Lu), 243
Silicon
different stacking of the Au and Si atoms in the phases RAuSi (R≡Sc, Y, Lu), 243
influence of substrate temperature on structure and electrical properties of Cr–Si–O films, 363
Specific heat
electronic specific heat of Mn_2Sb and $Mn_{1.9}Cr_{0.1}Sb$, L7
Spectroscopy
Raman and IR spectroscopy of H-charged $YBa_2Cu_3O_{7-\delta}$ films, 59
structure, magnetism and absorption spectra of some orthouranates and orthoneptunates, 17
Spray pyrolysis
high J_c Y–Ba–Cu–O thin films prepared by a spray pyrolysis method, 193
Strontium
synthesis, structure and characterization of $SrMoO_{2.6}{}^{15}N_{0.4}$, 145
Sulphur
structure and magnetic properties of binuclear compounds Cs_3FeS_3, Na_3FeS_3 and Na_3FeSe_3, 95
Superconductors
structural irregularity of stacking sequence in the $Sr_3V_2O_7$ compound, 31
CVD of Ag films for superconducting wire applications, 331
Raman and IR spectroscopy of H-charged $YBa_2Cu_3O_{7-\delta}$ films, 59

Tantalum
synthesis of Ta tellurides: the crystal structure of Ta_2Te_3, 181
Tellurium
synthesis of Ta tellurides: the crystal structure of Ta_2Te_3, 181
Ternary systems
liquid Cd–Ga–Sn: enthalpy of formation, 215
Thermal decomposition
thermal decomposition products of $(NH_4)_2CrO_4$ and $(NH_4)_2Cr_2O_7$, 171
Thermodynamics
liquid Cd–Ga–Sn: enthalpy of formation, 215
Thermogravimetry
thermodynamic investigation on vaporization of Mo trioxide, 373
Tin
determination of the phase diagrams of the Cd–Sn(0.2)–Zn ternary system at high pressure, 137
hydriding properties of $LaNi_{4.8}Sn_{0.2}$, $LaNi_{4.27}Sn_{0.24}$ and $La_{0.9}Gd_{0.1}Ni_5$ after thermal cycling and aging, 113
Titanium
microstructures and hydrogenation properties of $TiFe_{1-x}M_x$ alloys, 49

Uranium
change of anisotropy type in $UFe_{10-x}Al_xSi_2$, 381
evidence of U magnetic ordering in $UFe_{10}Si_2$, 293
formation of a nitrogen-rich α-U_2N_{3+x} phase by the reaction of U with a stream of ammonia, 389
magnetic and electrical properties of the tetragonal $U(Cu, Ni)_{2-x}Ga_{2+x}$ phases, 255
magnetic properties and ^{57}Fe Mössbauer effect investigation in $U_{1-x}Y_xFe_{10}Si_2$ solid solutions, 401
structure, magnetism and absorption spectra of some orthouranates and orthoneptunates, 17

X-ray absorption
polarization dependent X-ray absorption study of Cu_xNbS_2 ($x=0.00$, 0.16) and Cu_xNbSe_2 ($x=0.00$, 0.38), 157
X-ray diffraction
thermal decomposition products of $(NH_4)_2CrO_4$ and $(NH_4)_2Cr_2O_7$, 171

structural irregularity of the stacking sequence in the $Sr_3V_2O_7$ compound, 31
nanoscale quasi–amorphous Ni produced by leaching sputter-deposited $Ni_{25}Al_{75}$ alloy, L1
strontium dimagnesium iron octahydride, $SrMg_2FeH_8$, containing octahedral $[FeH_6]^{4-}$ complex anions, 227
strontium Mg tetrahydride ($SrMgH_4$), 105

Yttrium
different stacking of the Au and Si atoms in the phases RAuSi (R ≡ Sc, Y, Lu), 243
high J_cY–Ba–Cu–O thin films prepared by a spray pyrolysis method, 193

Zinc
determination of the phase diagrams of the Cd–Sn(0.2)–Zn ternary system at high pressure, 137
stage formation of quasi-crystals during mechanical treatment of the cubic Frank–Kasper phase $Mg_{32}(Zn, Al)_{49}$, 207

Zirconium
formation of a barrier oxide layer on a Zr–2.5wt.%Nb alloy during corrosion in high temperature pressurized water, 317